

INCITE OverviewJanuary 18, 2011



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What is INCITE?

INCITE: Innovative and Novel Computational Impact on Theory and Experiment

Provides awards to academic, government, and industry organizations worldwide needing large allocations of computer time, supporting resources, and data storage to pursue transformational advances in science and technology

INCITE is jointly run by the ALCF and OLCF, managed by Julia White





INCITE is open to researchers worldwide from academic, government, and industry organizations

Advancing the state of the art across a range of disciplines

Accelerator physics Astrophysics Bioenergy

Chemical sciences Computer science Engineering

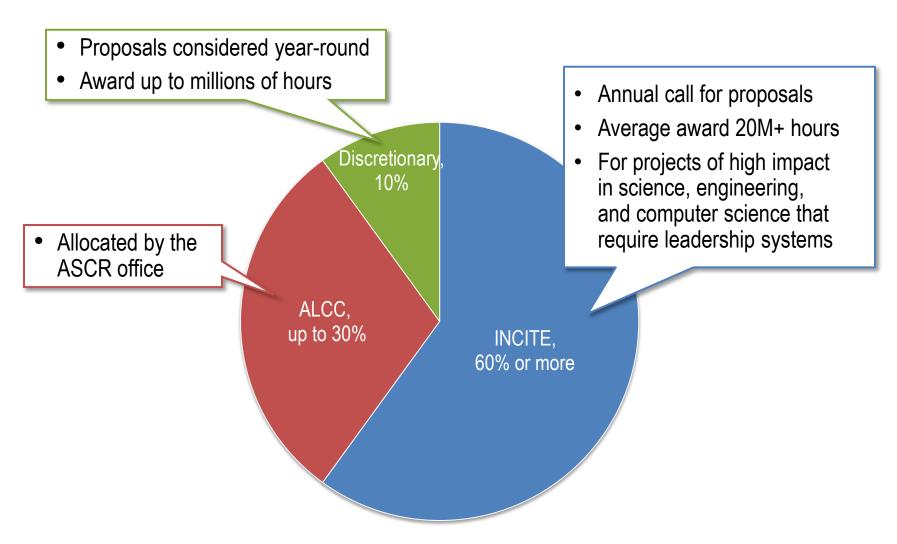
Climate research Environmental science Life sciences

Materials science Fusion energy Nuclear physics

- · No designated number of hours for a particular science area
- INCITE focuses on potential for scientific or technological impact, then readiness



LCF allocation programs More than 2.7 billion processor hours





INCITE mission goals

INCITE seeks projects that meet specific criteria

1 Impact criterion

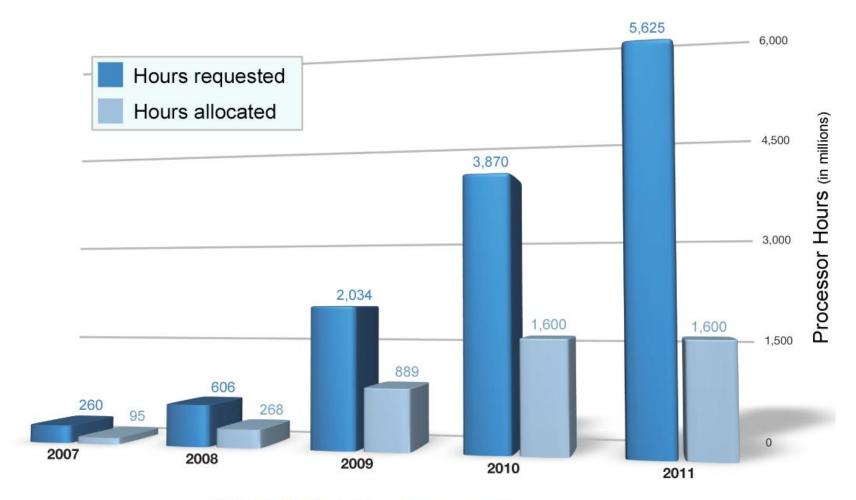
 High-impact science and engineering with specific objectives

Computational leadership criteria

- Computationally intensive runs that cannot be done anywhere else (typically use 20% of the LCF system for production jobs)
- Campaign that requires tens of millions of CPU hours
- Computations that are efficient on INCITE's LCF systems



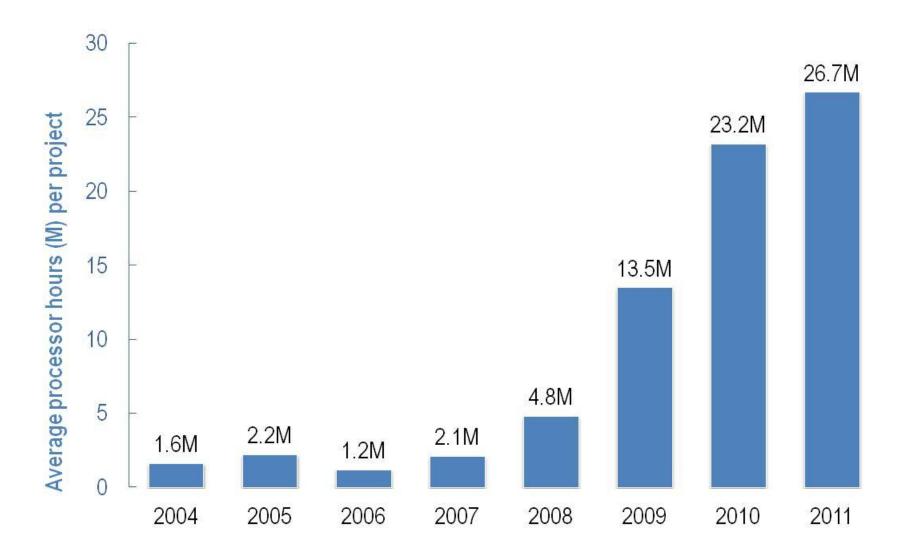
Growing demand for INCITE hours



INCITE Demand



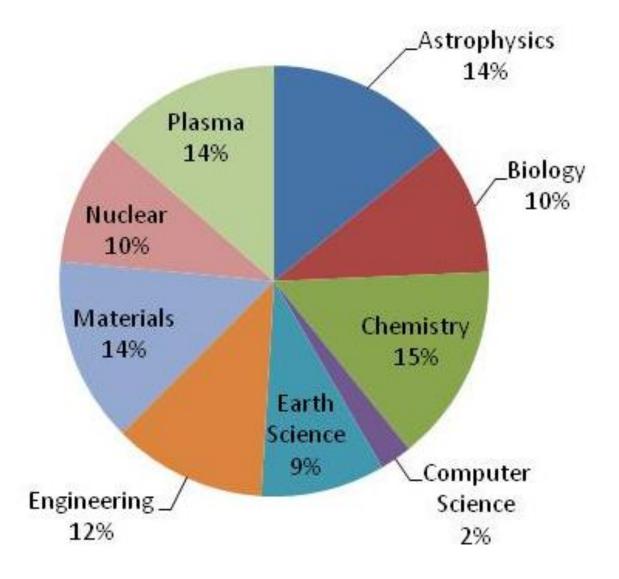
INCITE awards have increased in size





INCITE 2011 allocations by domain:

32 new projects and 25 renewal projects





What's next

- Let LCF staff know if you're having difficulties
- Respond to requests for information (ex. quarterly reports)
- Acknowledge the center and INCITE program
- Communicate your successes

The mission of INCITE is to enable high-impact, transformational scientific and technology

• April 13 – June 30, 2011:

2012 INCITE call for proposals/renewals



What we're looking for

New proposal assessment Renewal assessment Peer review: Scientific and/or Change in scope **INCITE** panels technical merit Met scientific milestones Appropriateness On track to meet of proposal method, future milestones milestones given Team qualifications Reasonableness of requested resources Computational Appropriateness for Met technical/ requested resources and readiness computational milestones computational approach review: On track to meet LCF centers Technical readiness future milestones



Contacts

For details about the INCITE program:

http://hpc.science.doe.gov INCITE@DOEleadershipcomputing.org



